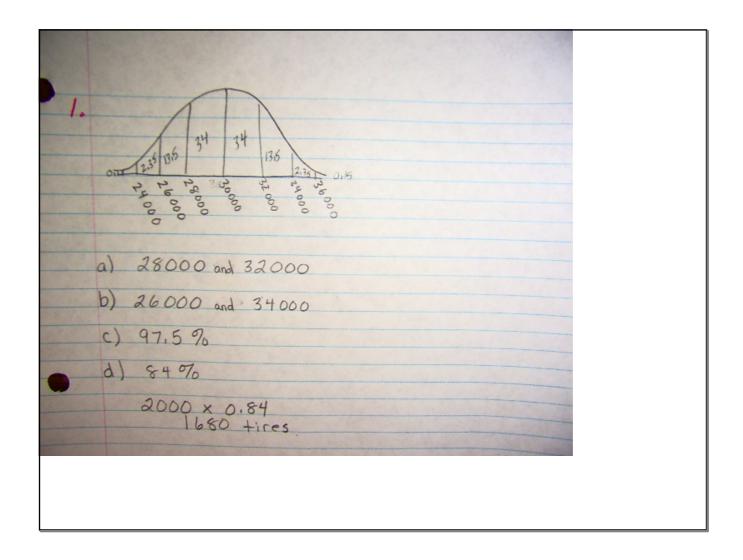
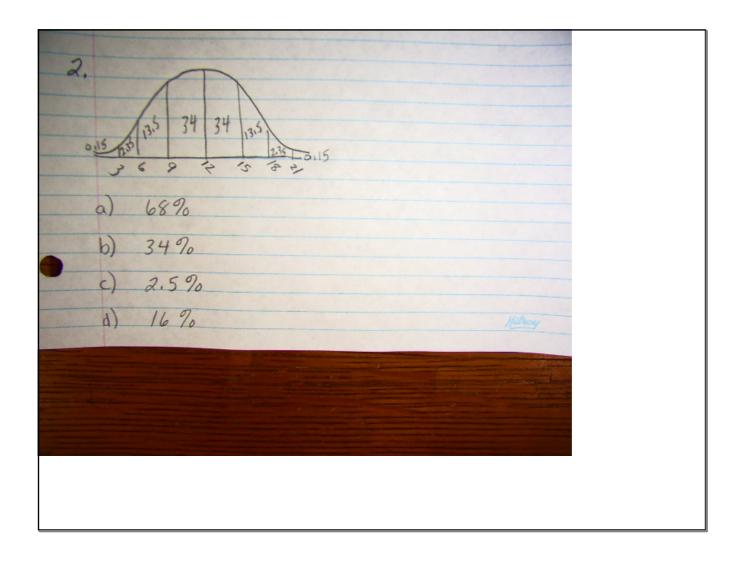
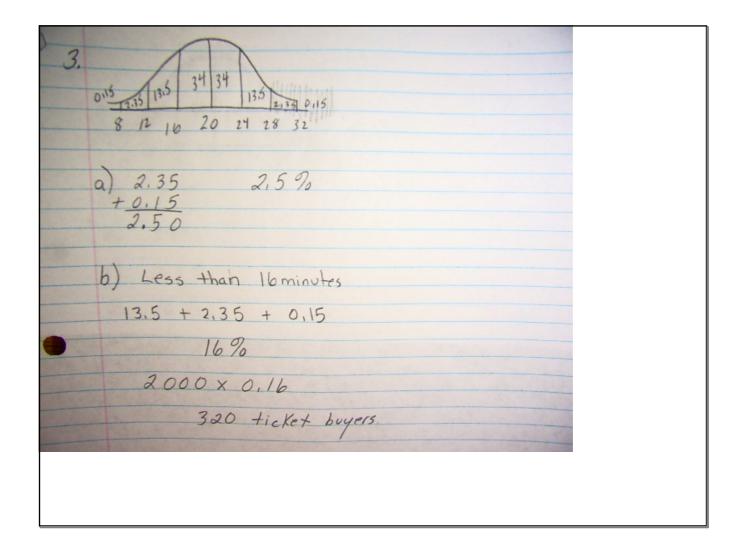
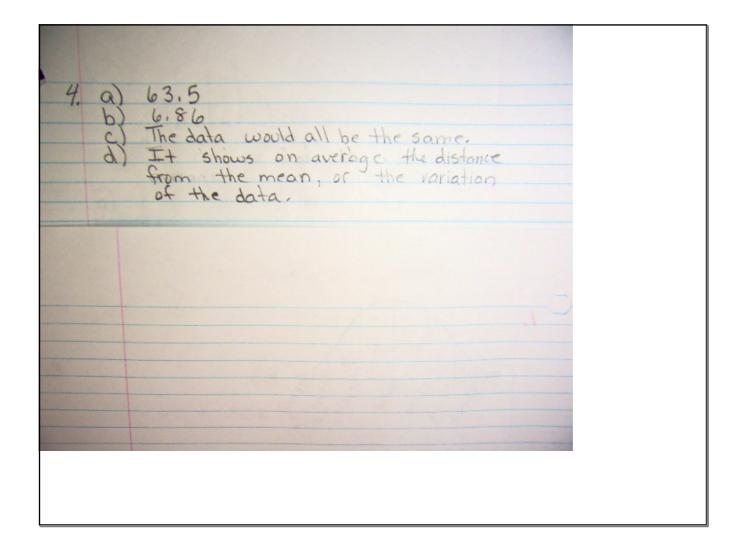
	Review Part Two of Statistics Unit
NORMAL	L CURVE:
For each	n question, construct a normal distribution curve and label the harizontal axis. Then answer
each que	estion. nean life of a tire is 30,000 km. The standard deviation is 2000 km.
I. The m	lear the of a file is 50,000 km. The standard deviation is 2000 km.
	68% of all tires will have a life betweenkm andkm.
	95% of all tires will have a life betweenkm andkm.
	What percent of the tires will have a life that exceeds 26,000 km?
	If a company purchased 2000 tires, how many tires would you expect to last more than
	28 000 km?
2. The	shelf life of a particular dairy product is normally distributed with a mean of 12 days and a
	and deviation of 3 days.
	a) About what percent of the products last between 9 and 15 days?
	b) About what percent of the products last between 12 and 15 days?
	c) About what percent of the products last 6 days or less?
3333	d) About what percent of the products last 15 or more days?
3. A	line up for tickets to a local concert had an average (mean) waiting time of 20 minutes with a
	dard deviation of 4 minutes,
	What percentage of the people in line waited for more than 28 minutes?
D)) If 2000 ticket buyers were in line, how many of them would expect to wait for less than 16 minutes?

103363 01 3	tudents (in kg):	70, 52, 68, 60, 59, 72, 55, 58, 66, 69, 72, 61.	
a) Me	an:		
	ndard Deviation:		
		tandard deviation is equal to zero?	
d) Wh	at is the meaning of standard de	eviation?	
CONFIDEN	CE INTERVALS:		
	e IQ test scores of 31 seventh-gra an is 105.84 and the standard dev	de girls in a Midwest school district. We have calculated that riation is 14.27.	
(a) Give a	99% confidence interval for the a	verage score in the population.	
b) Identify	the following:		
i)	Confidence interval:		
ii)	Margin of error:		
iii)	Point estimate:		
iv)	Confidence level:		









5. a) 99% Confidence Interval
Z = 2.56
$\bar{x} = Z \frac{\sigma}{\sqrt{n}}$
105.84 ± 2.56 (14.27)
105.84 ± 6.56
99.28 = M = 112.4
b) Confidence interval = 99.28=\mu=112.4 Margin of error = 6.56 Point estimate = 105.84 (Sample man) Confidence Level = 99%